

# THIXOPUMP S GROUT

## Product Codes

AG20, Packaging listed overleaf

## Description

Thixopump S Grout is a specially designed pre-packaged cementitious powder which contains a blend of fine cements and pozzolana combined with a synergistic blend of admixtures. When mixed with water, it produces a thixotropic grout which will flow under pumping or agitating conditions then will gel and "stay put" when the pumping pressure is released or the grout is left stationary. The pre-packed product is ready for on site use and is easily mixed pumped and placed. Once placed the rheology of the product ensures that the placed material will not readily slump or run. Thixopump S Grout is packaged in 20kg durable, moisture resistant bags.

The blend of admixtures assists in the rapid dispersion and mixing of the powder particles giving a low density grout which will have a thixotropic or fluid consistency depending on the cycle of placement. The mixed grout is extremely stable and will not segregate or bleed. Thixopump S Grout is chloride free and can be safely used in contact with reinforcing steel. The final mix gives a high volume yield.

For applications that require a rapid gain in early strength development or in cold weather, the use Thixopump A Grout is recommended.

Uses include: "Pump and stay" applications  
Specified requirement for a low density, high volume void filler  
Stabilisation of sands and gravels, loose earth and embankments  
Control of ground water ingress  
Sealing fissures in rock, masonry, brick and concrete, without the use of formwork  
Filling and repairing of cracks in brick arches and soffit concrete.

## Specification Outline

Grouting works shall be carried out using Thixopump S Grout as manufactured by Tecroc Products Ltd. The product must be stored, handled and used strictly in accordance with the manufacturer's instructions.

## Quality Assurance

Tecroc Products Ltd is a firm of Assessed Capability. The Company's quality system conforms to BS EN 9002:1994 and is assessed by SGS Yarsley International Certification Services Ltd.

## Typical Grout Properties @ 20 °C

### Compressive Strength Tested To BS 1881

Water content 60% by weight

12litres per 20kg bag

1Day	3 Days	7 Days	28 Days
4N/mm <sup>2</sup>	10N/mm <sup>2</sup>	15N/mm <sup>2</sup>	23N/mm <sup>2</sup>

### Compressive Strength Tested To BS 1881

Water content 30% by weight

6litres per 20kg bag

1Day	3 Days	7 Days	28 Days
28N/mm <sup>2</sup>	35N/mm <sup>2</sup>	45N/mm <sup>2</sup>	65N/mm <sup>2</sup>

## Consistency

**60% water** Fluid grout  
**30% water** Thixotropic grout

## Consistency life (grout slightly agitated)

**60% water** 60 minutes  
**30% water** 15 minutes

## Setting times

**60% water** Initial 7½ hours  
**To BS 4550** Final 9 hours

## Volume stability Non shrink to ASTM C827

**Density** 1700kg/m<sup>3</sup>

## Standards

Thixopump S Grout has been tested in accordance with the appropriate parts of the following standards:

B.S. 1881 B.S. 4550 B.S. 4551  
ASTM C827



# THIXOPUMP S GROUT

## Instructions For Use

### Preparation

All necessary preparatory work must be completed before the grout is mixed. Site trials may be carried out to confirm that suitable equipment is available. Ensure that enough grout is mixed and available for the grouting operation to be completed in one continuous pour.

### Mixing

Thixopump S Grout is mixed using a suitable container and a variable speed high torque drill with a Grout Stirrer. Add the appropriate amount of water to the mixing container, 6 litres to 12 litres, to produce the required grout consistency. Steadily pour the Thixopump powder into the water while continuously mixing. After all of the grout powder has been added, mix for a further 2 minutes. Pass the grout through a suitable sieve to remove any formed lumps.

Sufficient quantities of grout should be mixed to enable placing to be carried out in one continuous operation.

### Placing

The use of a positive displacement pump supplying pump pressures of up to 50 bar is recommended. The grout should be held in a reservoir with an agitator prior to placing and the equipment should be set up as near the injection site as possible. Check the mixing and pumping procedure for leaks, using water which will also lubricate the equipment.

Frictional resistance to grout flow should be kept to a minimum by using a wide bore pipeline of at least 32mm diameter and reducing the line length and bends as much as possible.

When the grouting operation is complete, immediately wash out the equipment with water.

### Curing

For totally enclosed void filling, no particular curing is required.

## Precautions

### Health and Safety

Thixopump S Grout is alkaline when mixed with water and should not come into contact with skin or eyes.

Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice.

Full health and safety data are given in Product Safety Data Sheet.

### Fire

Thixopump S Grout is non-flammable

### Yield

Each 20kg bag of Thixopump S Grout will yield approximately 17<sup>3</sup>/<sub>4</sub> litres of mixed material.

### Storage And Shelf Life

Thixopump S Grout will have a storage life of 12 months in unopened bags when kept in dry conditions at a temperature between 5°C and 45°C. Storage at higher temperatures or high humidity may reduce shelf life.

### Packaging And Ordering

Thixopump S Grout is supplied in:

20kg valvesack bags                      Product Code AG20

For further information and sales please contact your local Tecroc Products office as listed below.

Tecroc Products Ltd products are guaranteed against defective materials and manufacture. Products are sold subject to the Tecroc Products Ltd Terms and Conditions of Sale, copies of which are forwarded on invoice and are available on request. Tecroc Products Ltd endeavours to ensure that the above data and any further advice is correct, however, it cannot accept any direct or indirect liability for the use of its products as such usage is beyond its control.

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